

INSTALLATION SETUP GUIDE - ST SERIES

LOCATE CONTROLLER/SENSOR

Prior to the installation process, a location plan for placing the Controller and Sensor should be developed. Although there are no absolute rules for determining the quantity and location of a sensor or controller, the following points should be considered when planning the installation.

- Locate the Controller where it will be accessible and visible.
- Carefully locate Sensor in an area where gases may potentially accumulate.
- Use redundant systems to enhance protection and reliability.
- Light gases tend to rise; heavy gases tend to accumulate in low areas.
- Consider air movement patterns within the facility.
- Consider the construction of the facility (such as trenches where heavy gases may accumulate or peaks where light gases may accumulate).
- Seek advice from experts knowledgeable about the primary gas to be detected.
- Use common sense and refer to various regulatory publications that discuss general guidelines for your industry.

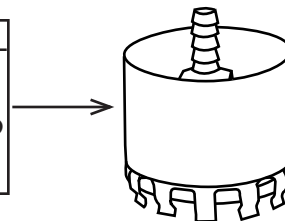
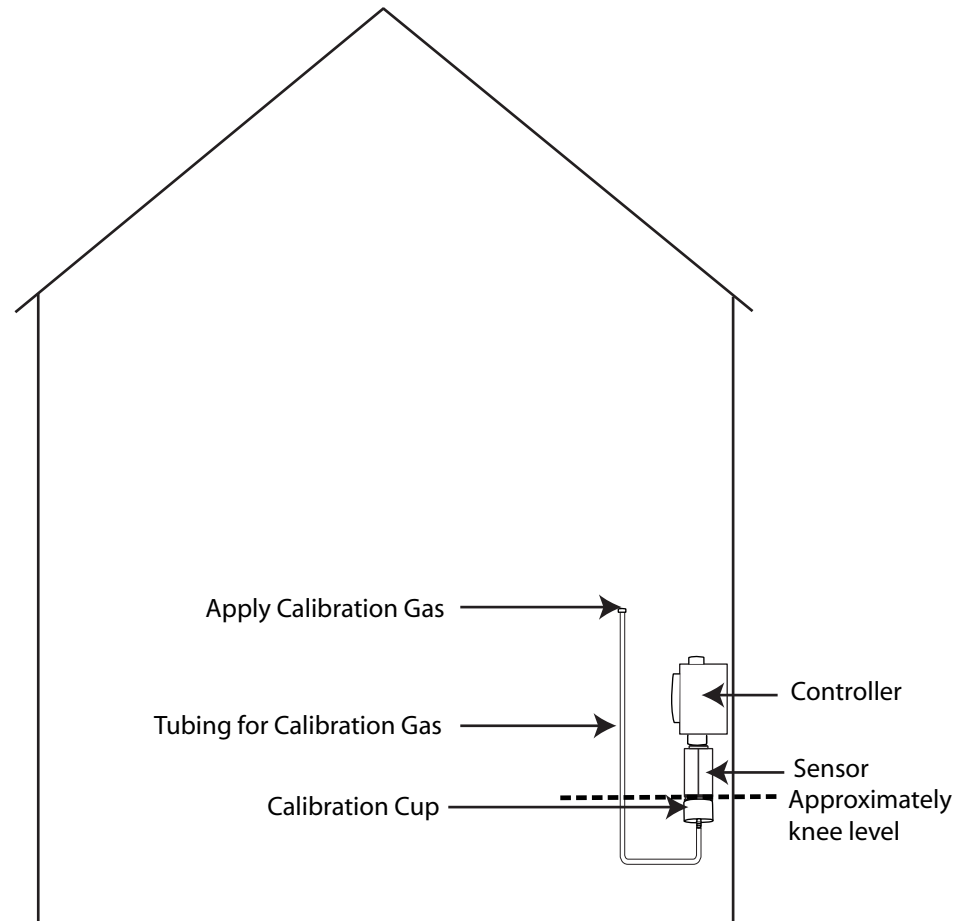
The two most common installation options are as follows.

Option 1 - Sensor is located lower to the ground to detect heavy gases.

The Sensor is attached directly to the Controller. A Calibration Cover is slipped onto the bottom of the Sensor and the calibration gas is attached to the side calibration fitting (See Figure 1).

TIP: The Calibration Cup allows for tubing to be affixed to a Sensor mounted in remote locations. The tubing is directed to a level, usually close to the Controller, for easy injection of calibration gas. The Calibration Cup can also act as a splash guard, protecting sensors when mounted low to the ground.

Figure 1: Locate Sensor/Controller - Attached



Option 2 - Locate Sensor separate from Controller using a Junction Box.

The Controller is located near eye-level. Conduit is run from the Controller to the Sensor. A Junction Box is used to connect the conduit from the Controller to the Sensor. A Calibration Cover is slipped onto the Sensor to concentrate the gas. Tubing can be run from the side calibration fitting on the Sensor to a convenient location accessible for calibration gas to be applied (See Figure 2).

WARNING!

To compensate for distance when remotely calibrating (sensor wired for separation), decrease the tubing diameter or increase the calibration gas flow rate between gas canister and sensor. Always confirm calibration by applying gas at the sensor (not separated).

Figure 2: Locate Sensor/Controller Separate

